

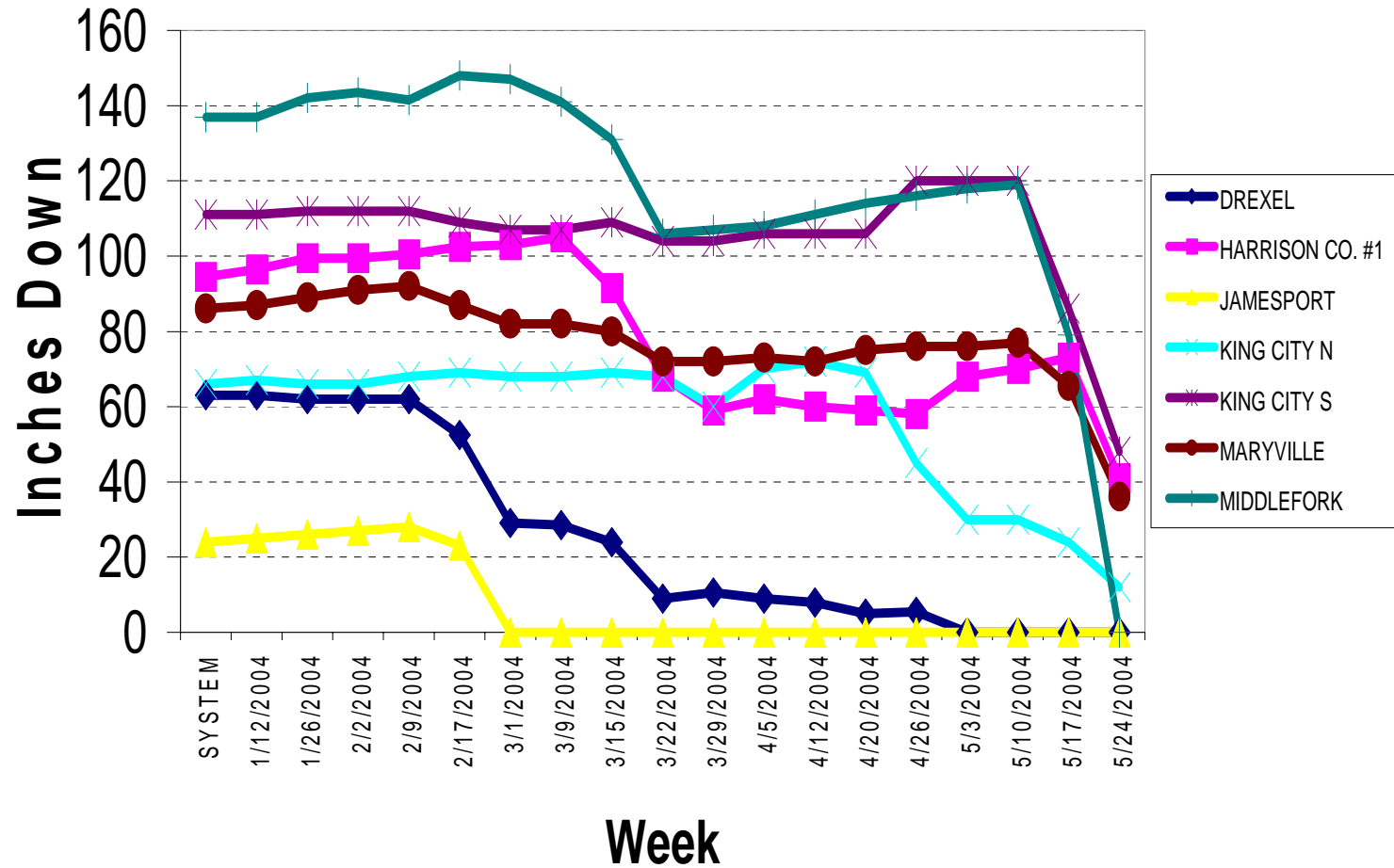
DNR Drought Assessment Committee (DAC) June 3, 2004

Water Resources Program



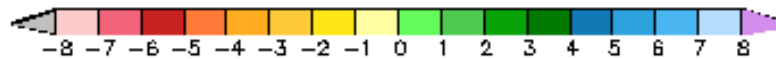
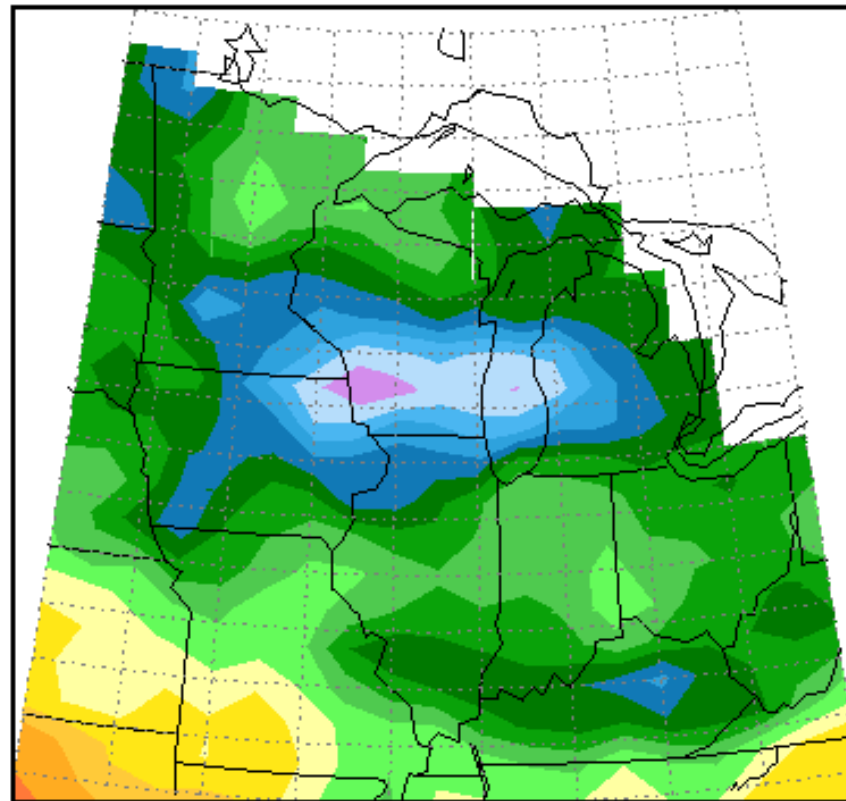
Missouri
Department of
Natural Resources

KC Surface Water Supply Levels



Precipitation Departure for the Last 30 Days

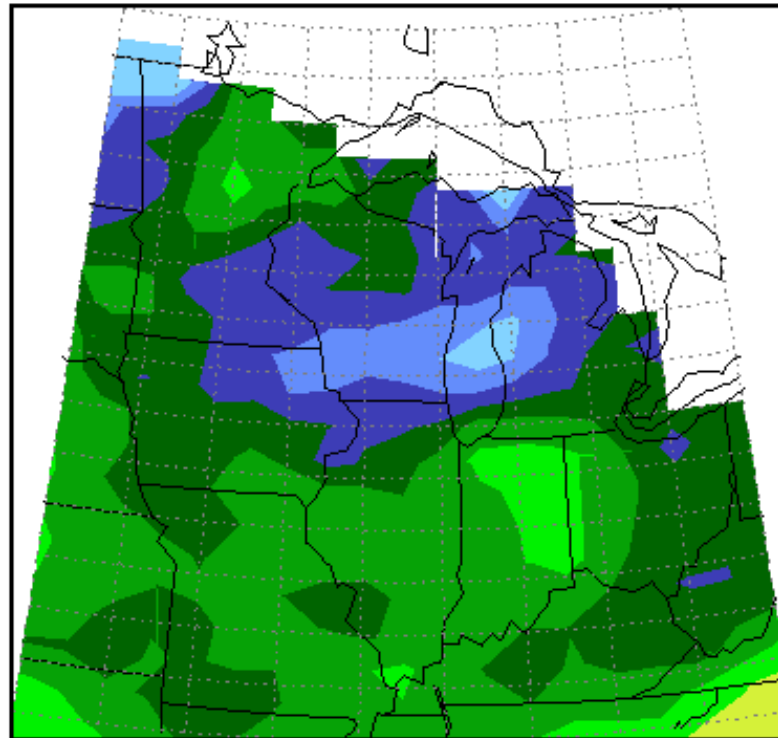
Total Precipitation Departure from Mean in Inches
May 3, 2004 to June 1, 2004



Midwestern Regional Climate Center
Illinois State Water Survey
Champaign, Illinois

Precipitation Percentage of Normal (90 days)

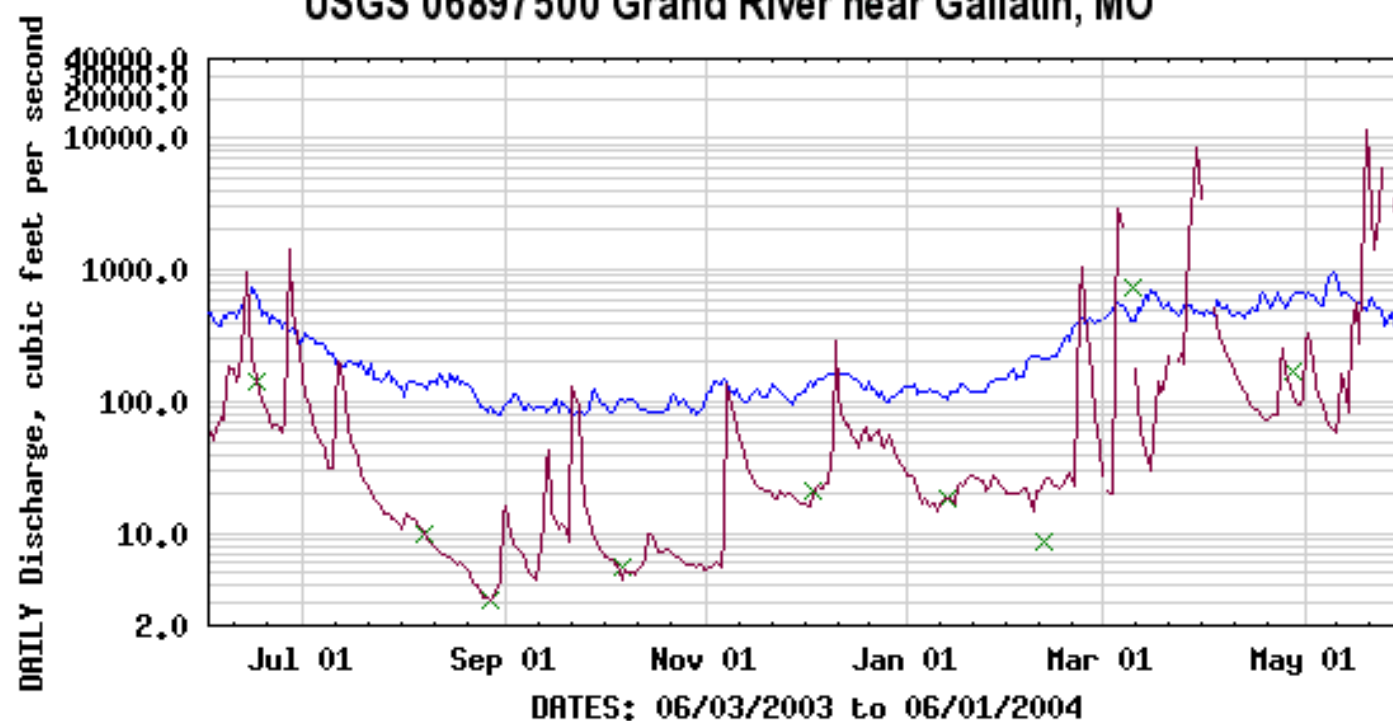
Total Precipitation Percent of Mean
March 4, 2004 to June 1, 2004



Midwestern Regional Climate Center
Illinois State Water Survey
Champaign, Illinois



USGS 06897500 Grand River near Gallatin, MO



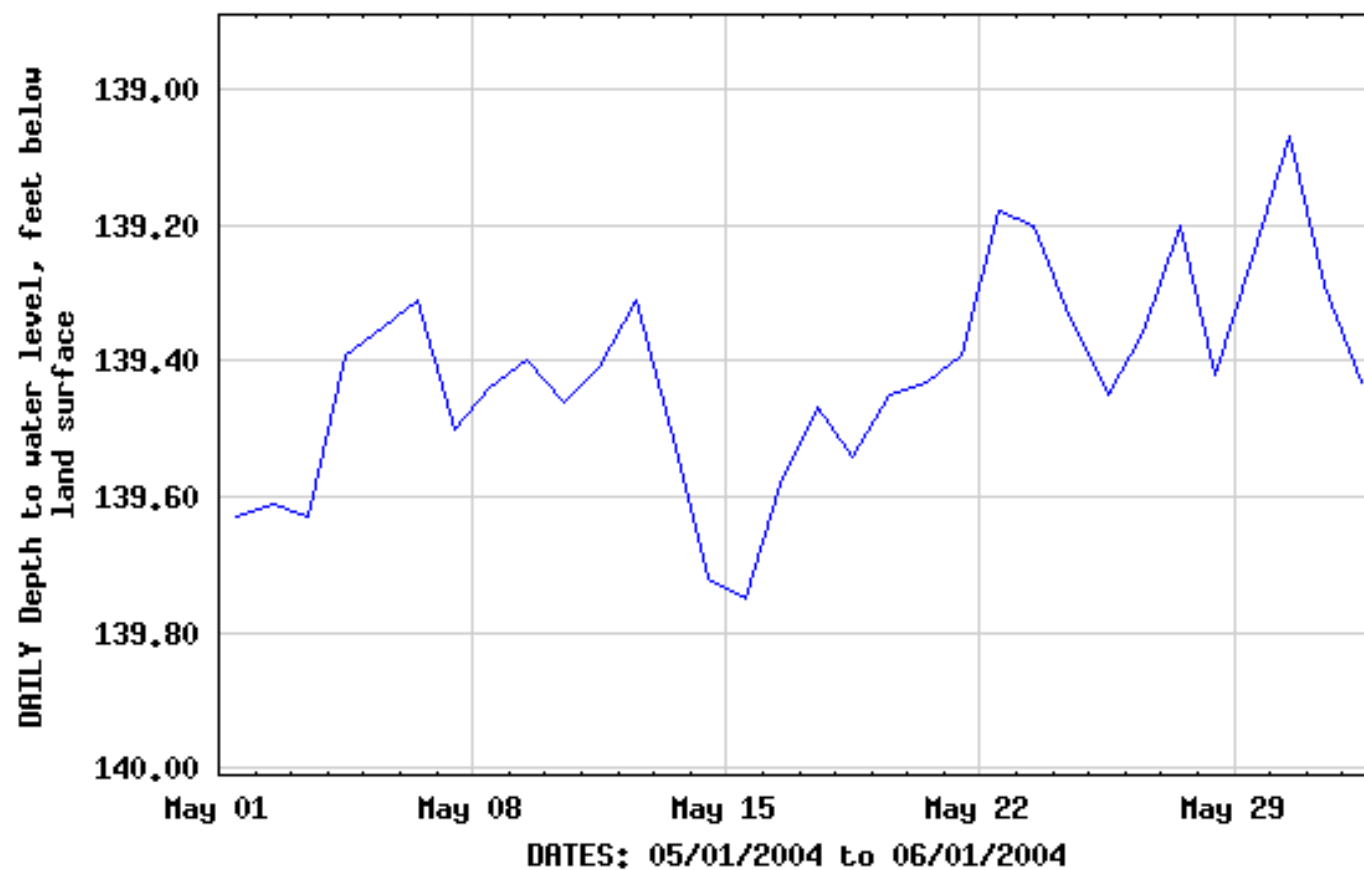
EXPLANATION

- MEDIAN DAILY STREAMFLOW BASED ON 83 YEARS OF RECORD
- × MEASURED Discharge
- DAILY MEAN DISCHARGE

Provisional Data Subject to Revision



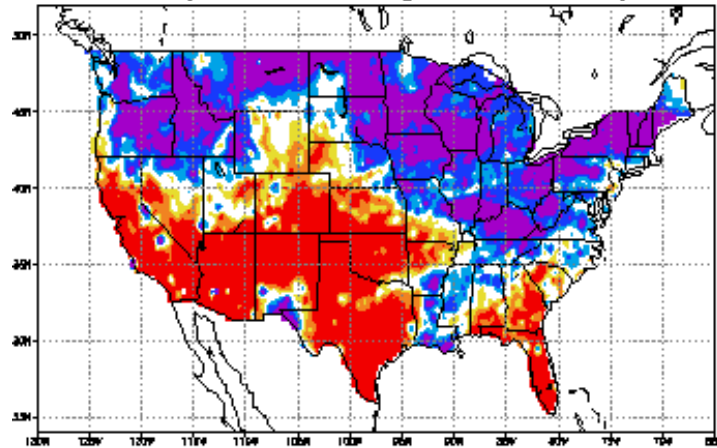
USGS 400458093582001 Coffey



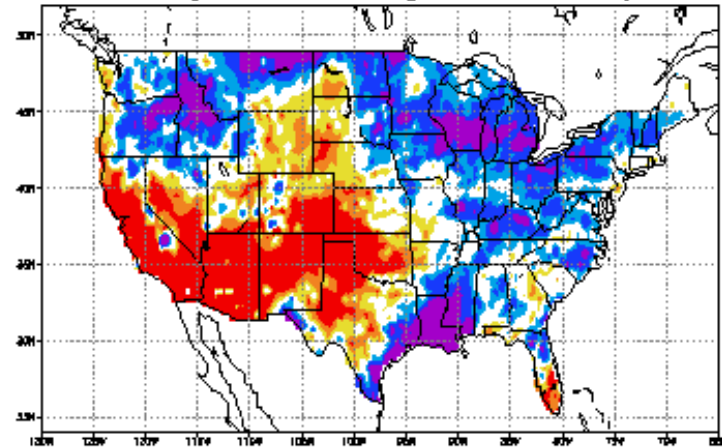
Provisional Data Subject to Revision

Precipitation, Percent of Normal: Last 15, 30, 60 and 90 Days

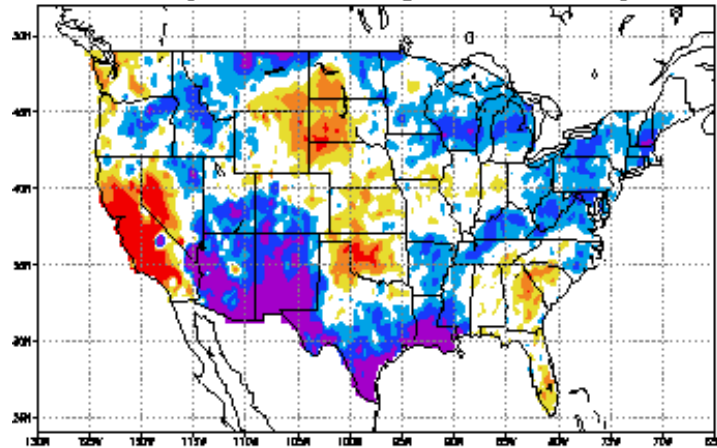
15 days, ending 2004May31



30 days, ending 2004May31

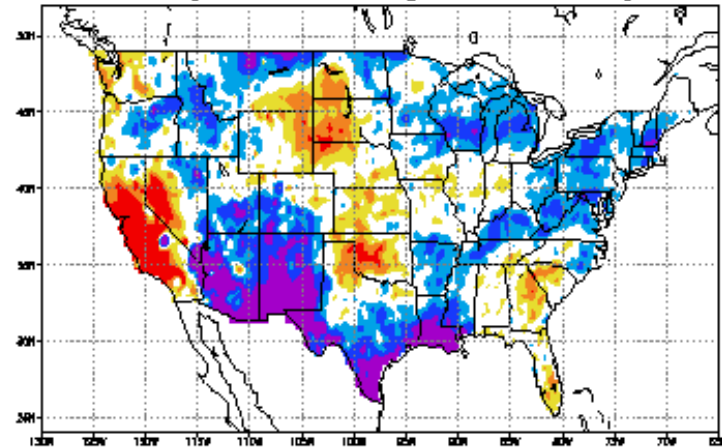


60 days, ending 2004May31



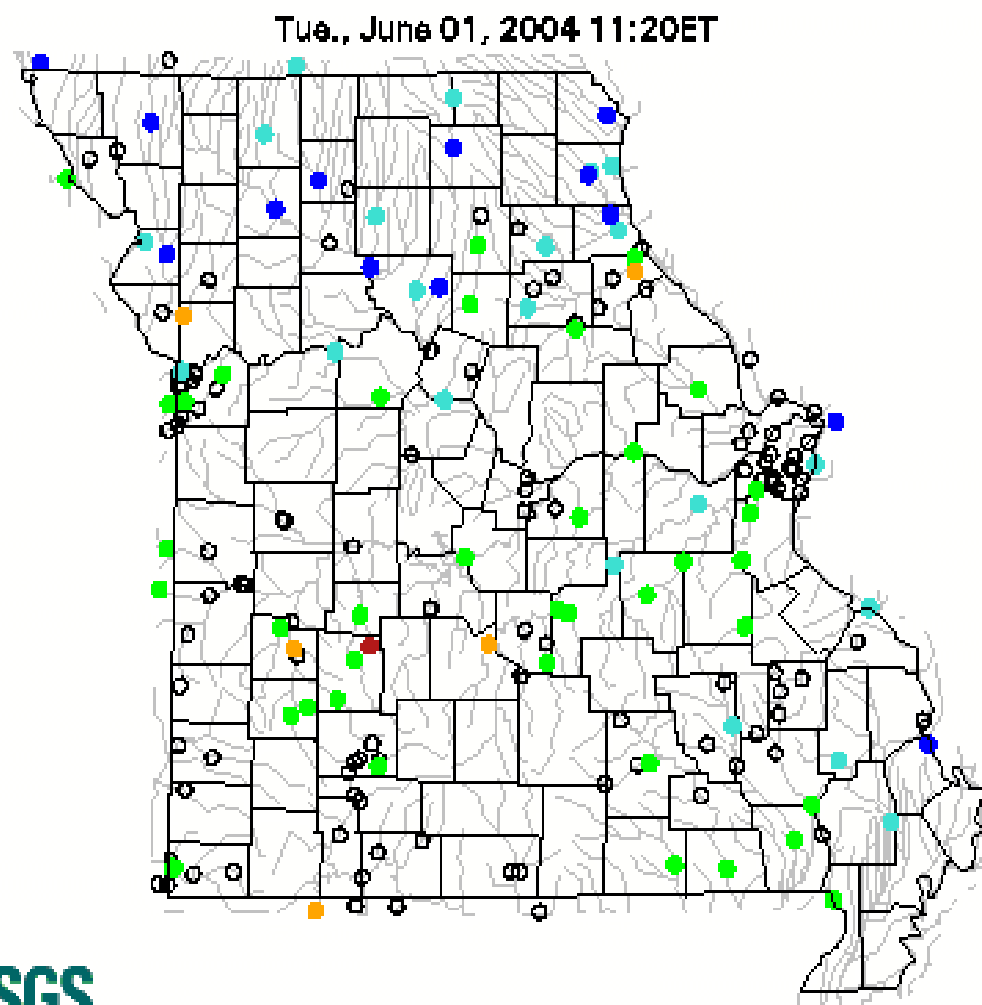
Dry Wet

90 days, ending 2004May31



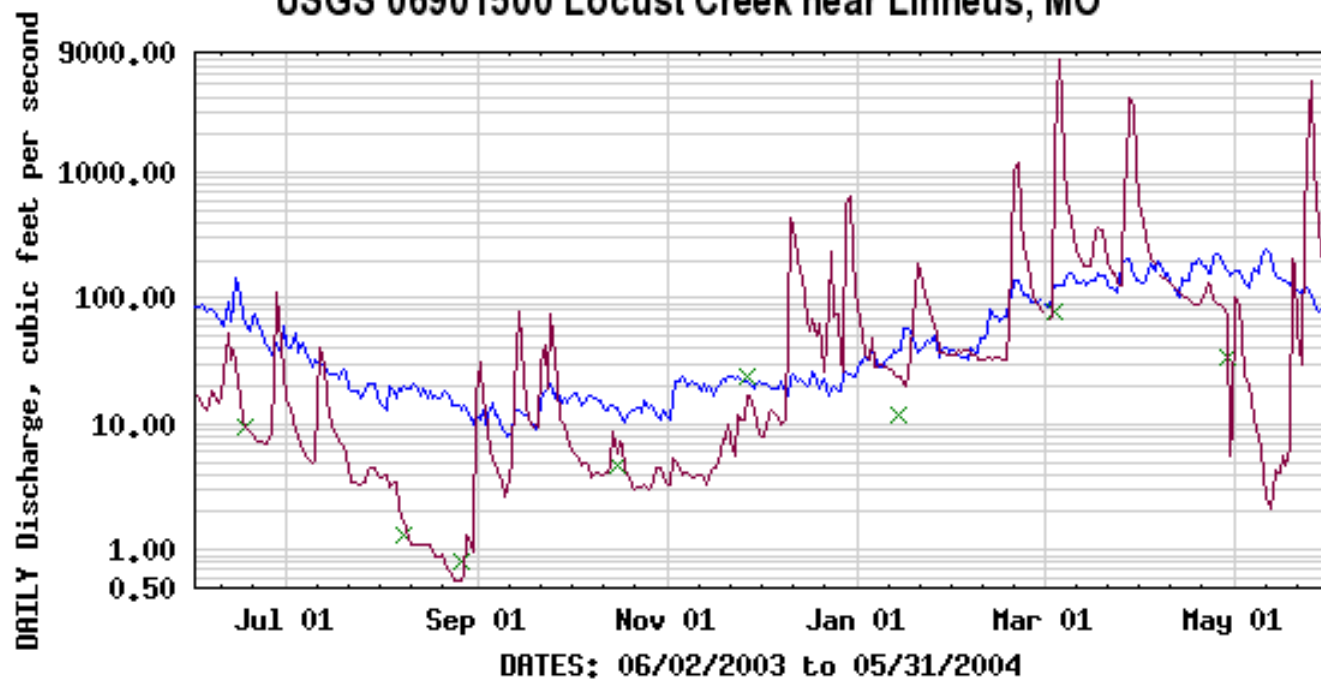
Dry Wet

**Map of real-time streamflow compared
to historical streamflow for the day of the year
(Missouri)**





USGS 06901500 Locust Creek near Linneus, MO



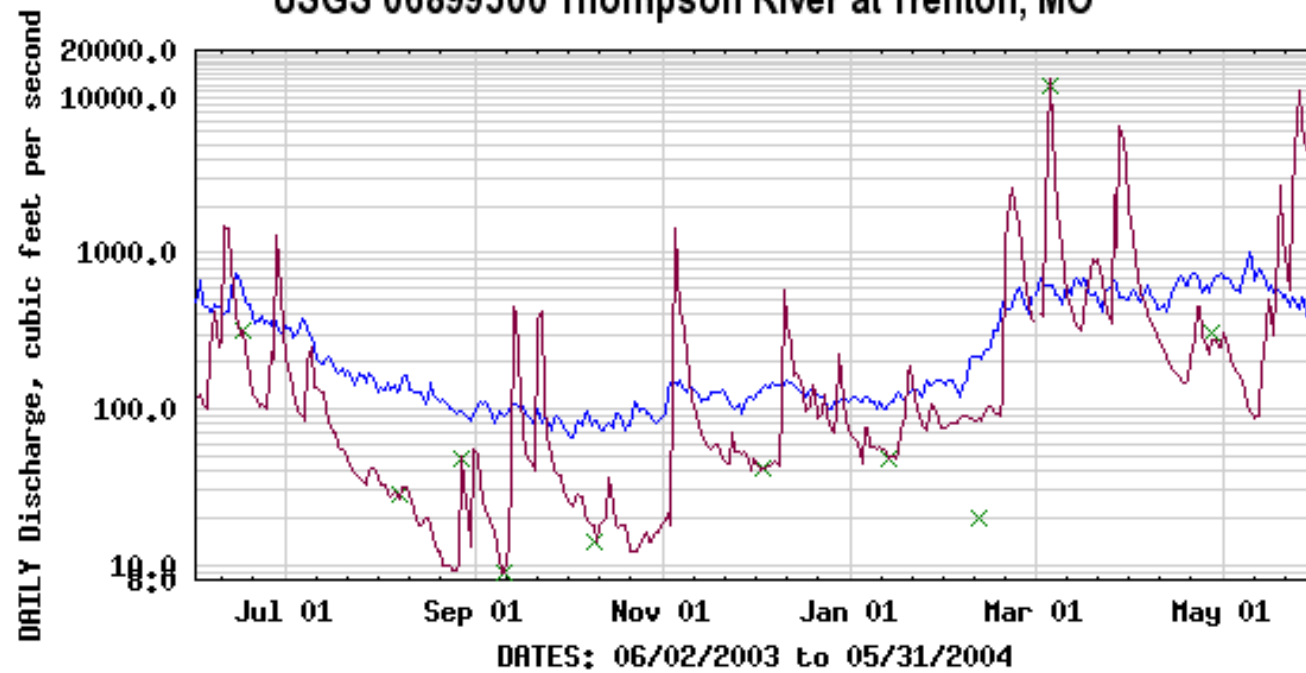
EXPLANATION

- MEDIAN DAILY STREAMFLOW BASED ON 46 YEARS OF RECORD
- × MEASURED Discharge
- DAILY MEAN DISCHARGE

Provisional Data Subject to Revision



USGS 06899500 Thompson River at Trenton, MO



EXPLANATION

- MEDIAN DAILY STREAMFLOW BASED ON 75 YEARS OF RECORD
- × MEASURED Discharge
- DAILY MEAN DISCHARGE

Provisional Data Subject to Revision

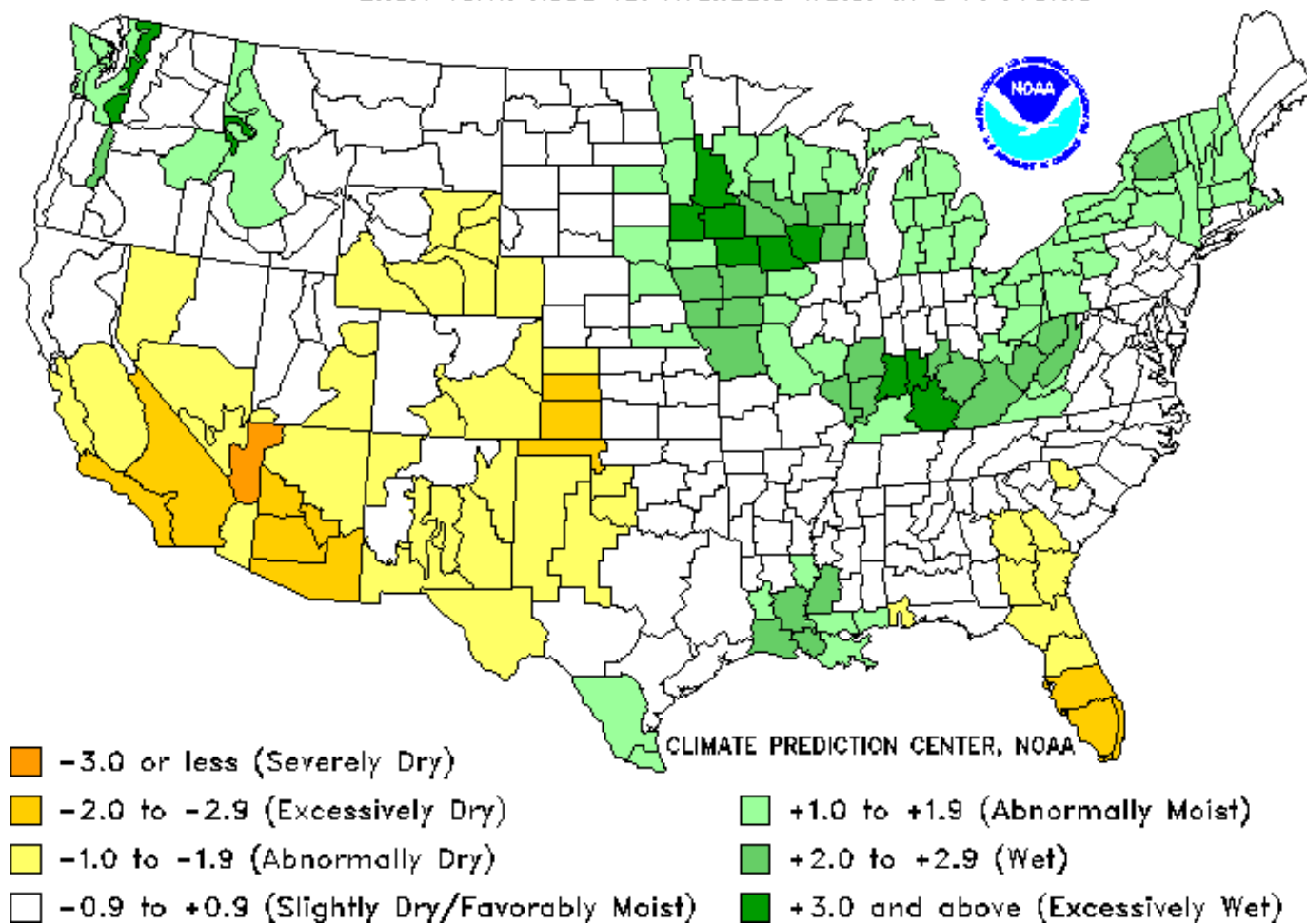
Thompson River at Trenton May 'O4



Crop Moisture Index by Division

Weekly Value for Period Ending 29 MAY 2004

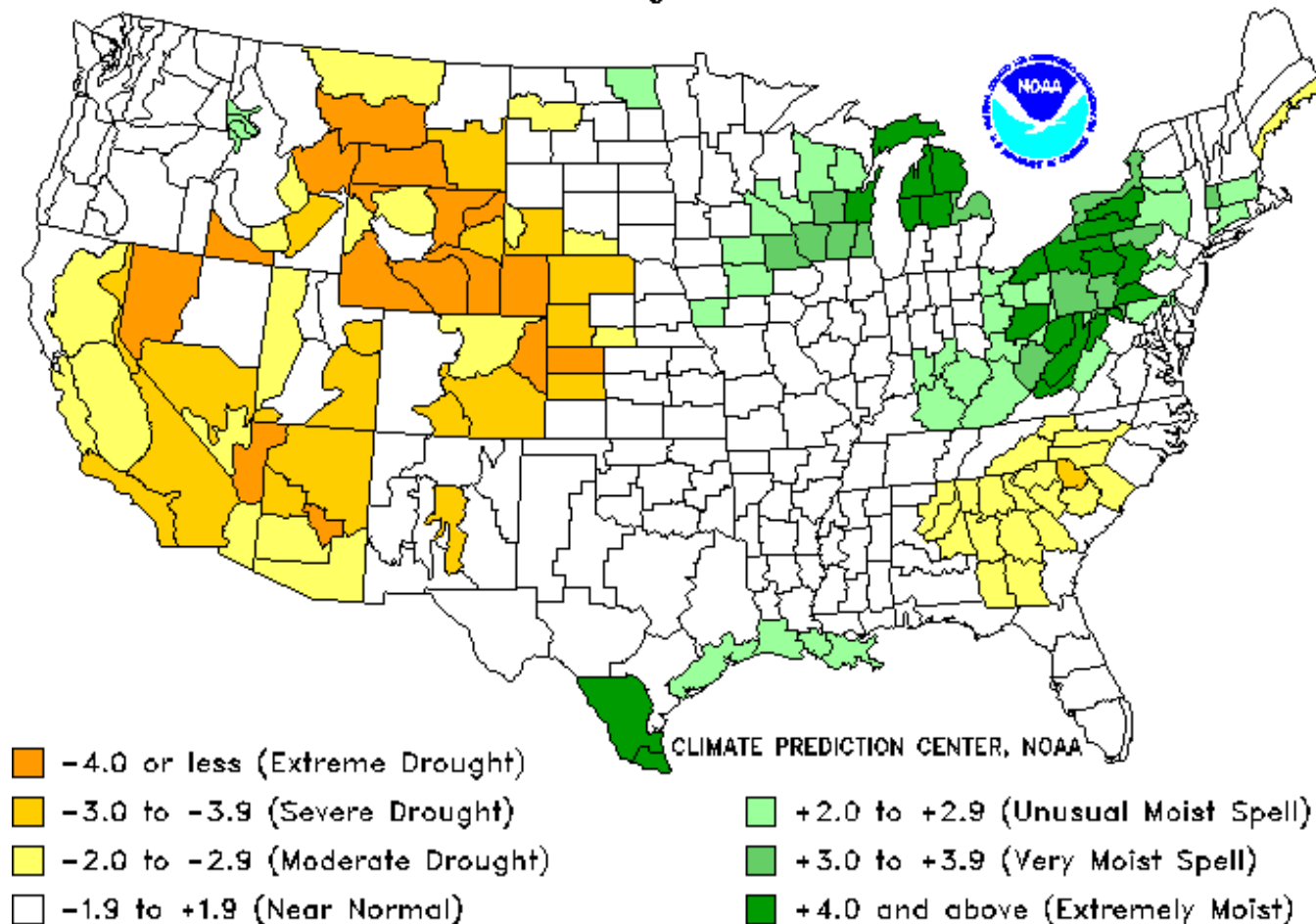
Short Term Need vs. Available Water in 5 Ft Profile



Drought Severity Index by Division

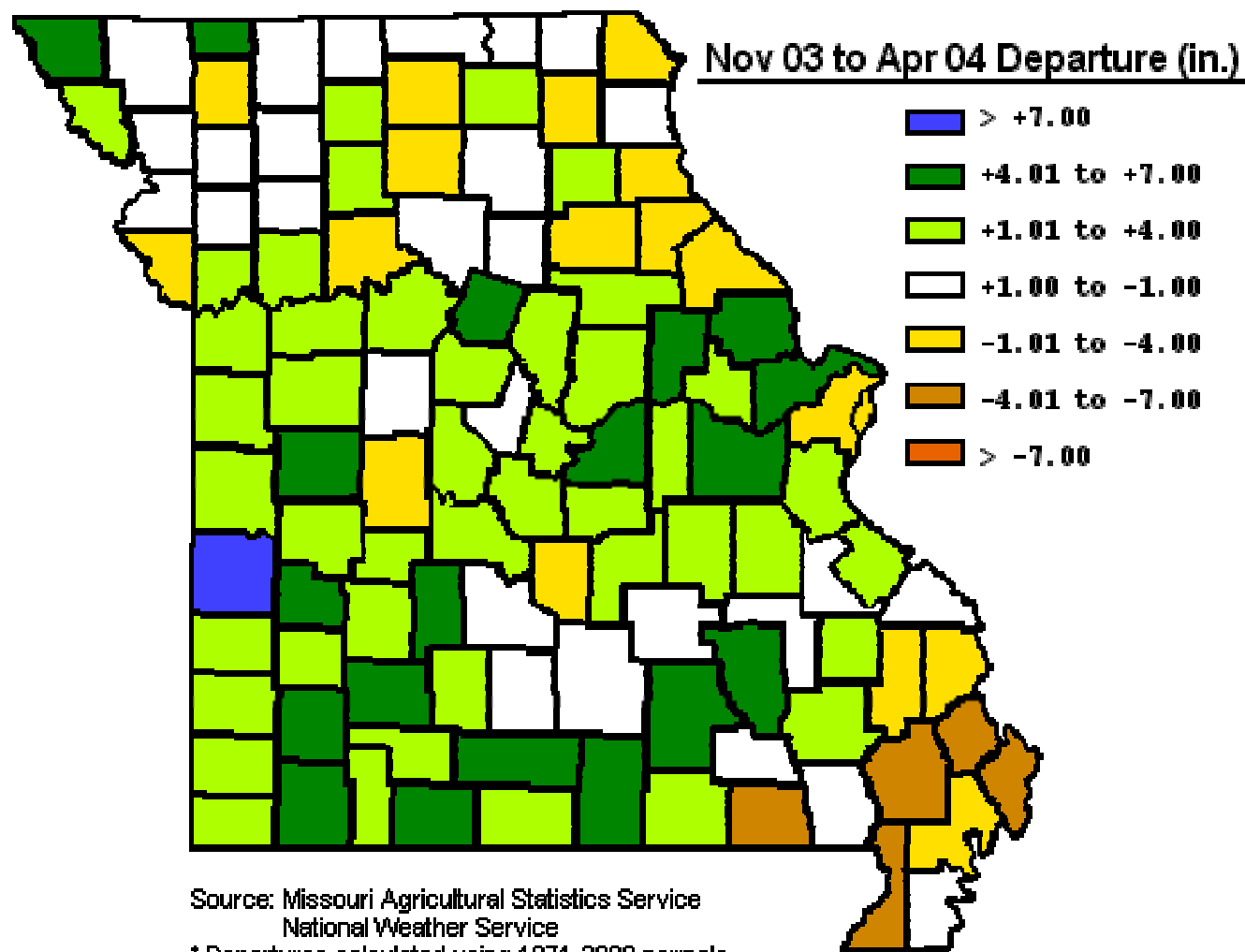
Weekly Value for Period Ending 29 MAY 2004

Long Term Palmer

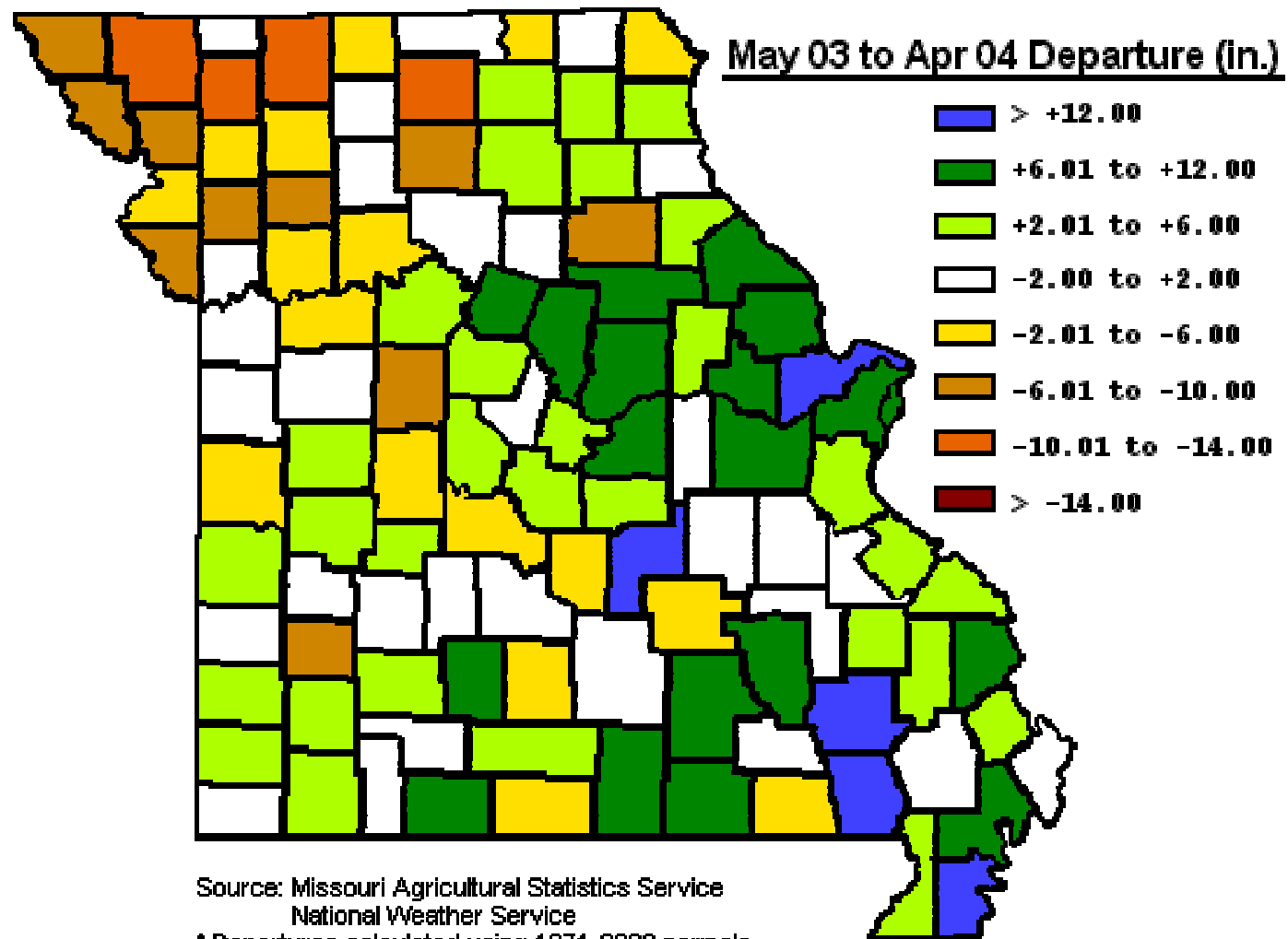


Missouri County Precipitation Departure From Normal*

For November 2003 to April 2004



Missouri County Precipitation Departure From Normal*
For May 2003 to April 2004



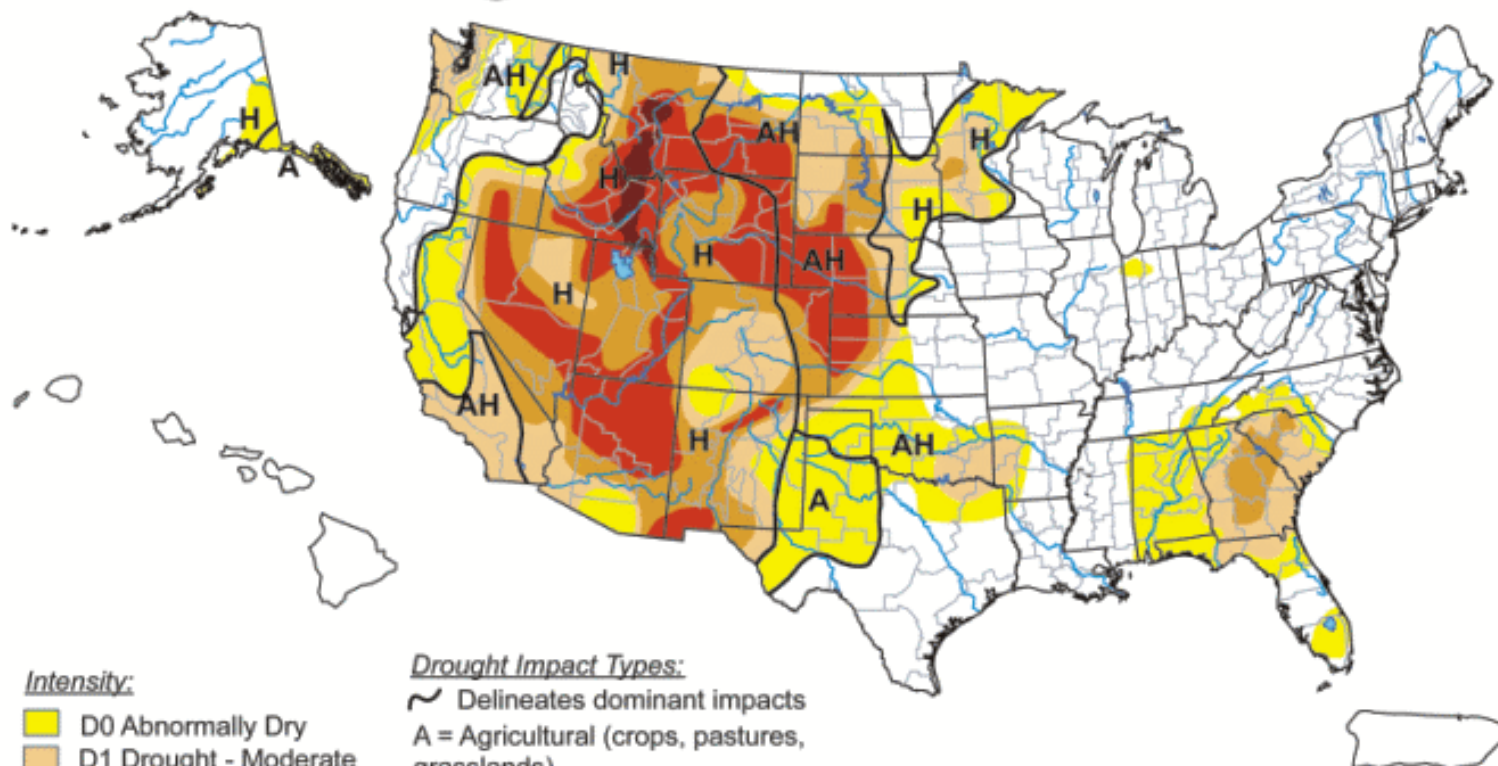
Harrison County Farm Pond, May '04



U.S. Drought Monitor

May 25, 2004

Valid 8 a.m. EDT



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

~ Delineates dominant impacts

A = Agricultural (crops, pastures, grasslands)

H = Hydrological (water)

A,H = Agricultural and Hydrological
(No type = Both impacts)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>

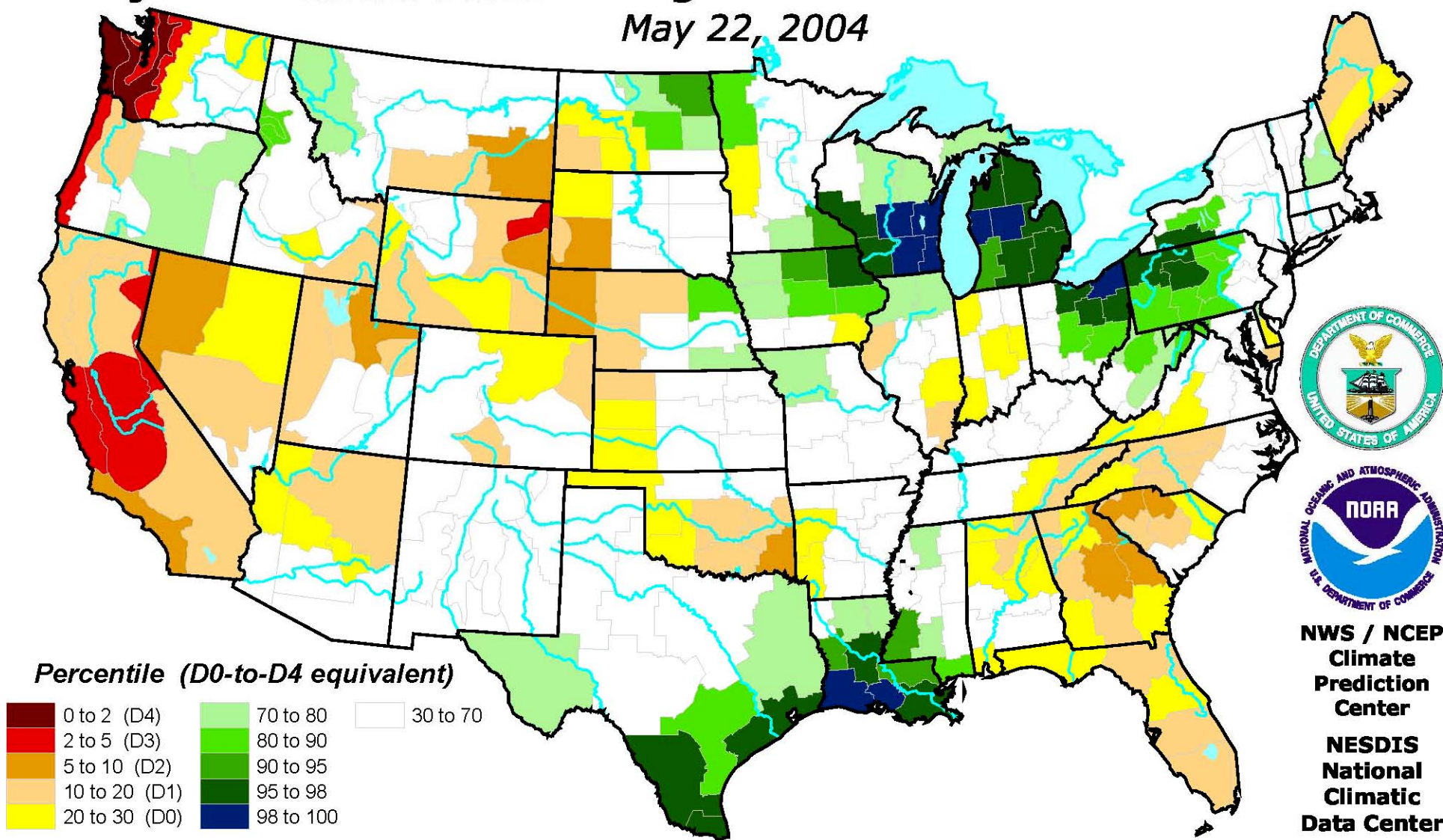


Released Thursday, May 27, 2004

Author: Rich Tinker, CPC/NCEP/NWS/NOAA

Objective *Short-Term* Drought Indicator Blend Percentiles

May 22, 2004

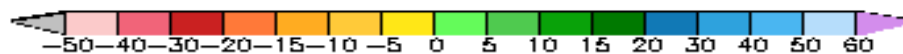
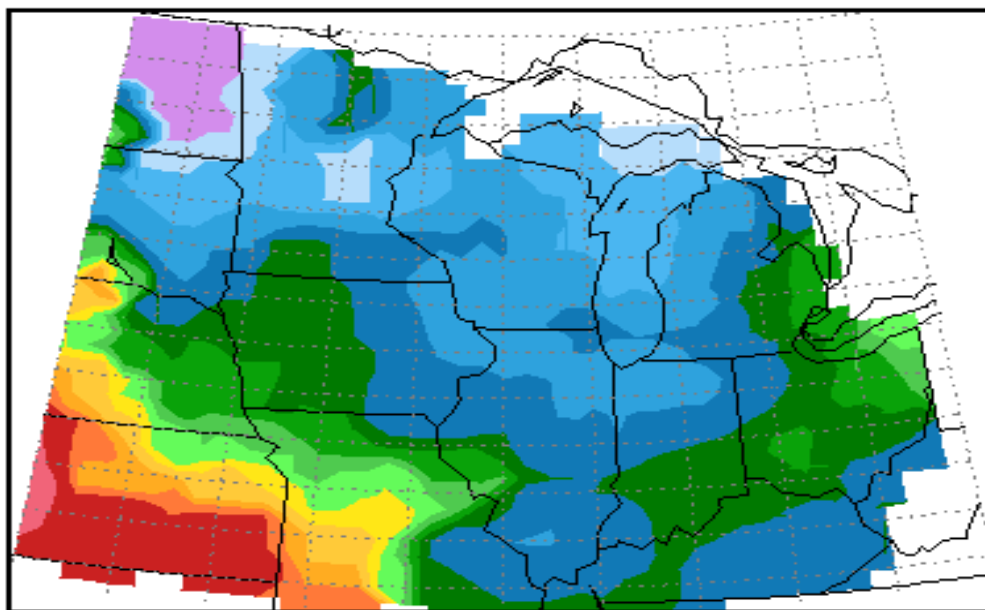


This map approximates impacts that respond to precipitation over several days to a few months, such as agriculture, topsoil moisture, unregulated streamflows, and most aspects of wildfire danger. The relationship between indicators and impacts can vary significantly with location and season. Do not interpret this map too literally.

This map is based on preliminary climate division data. Local conditions and/or final data may differ. See the detailed product suite description for more details.

**Current Soil Moisture Deviation (%). Depth = 0-12
June-1-2004**

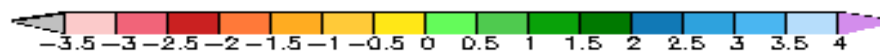
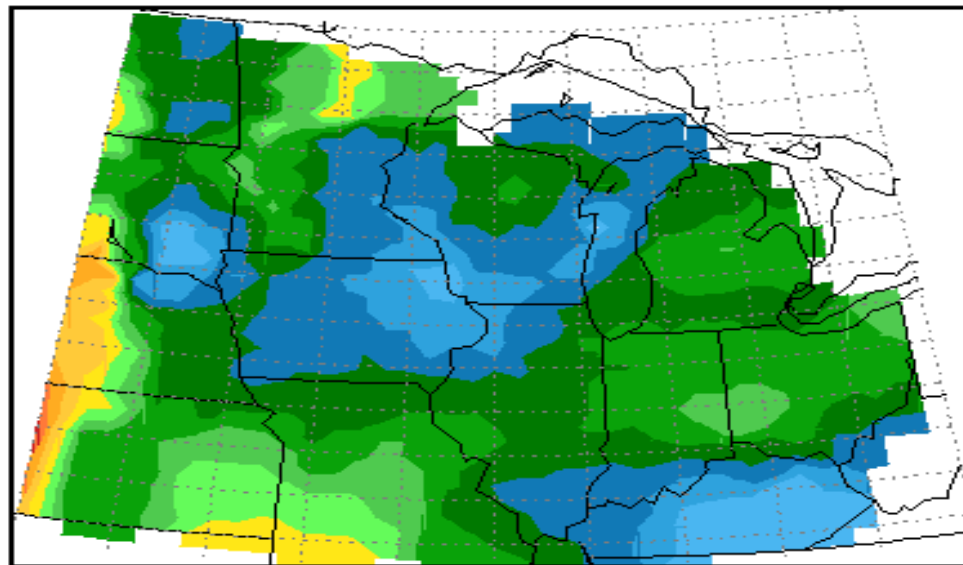
**Current Soil Moisture Deviation (%). Depth = 0-12
June-1-2004**



**Midwestern Regional Climate Center
Illinois State Water Survey
Champaign, Illinois**

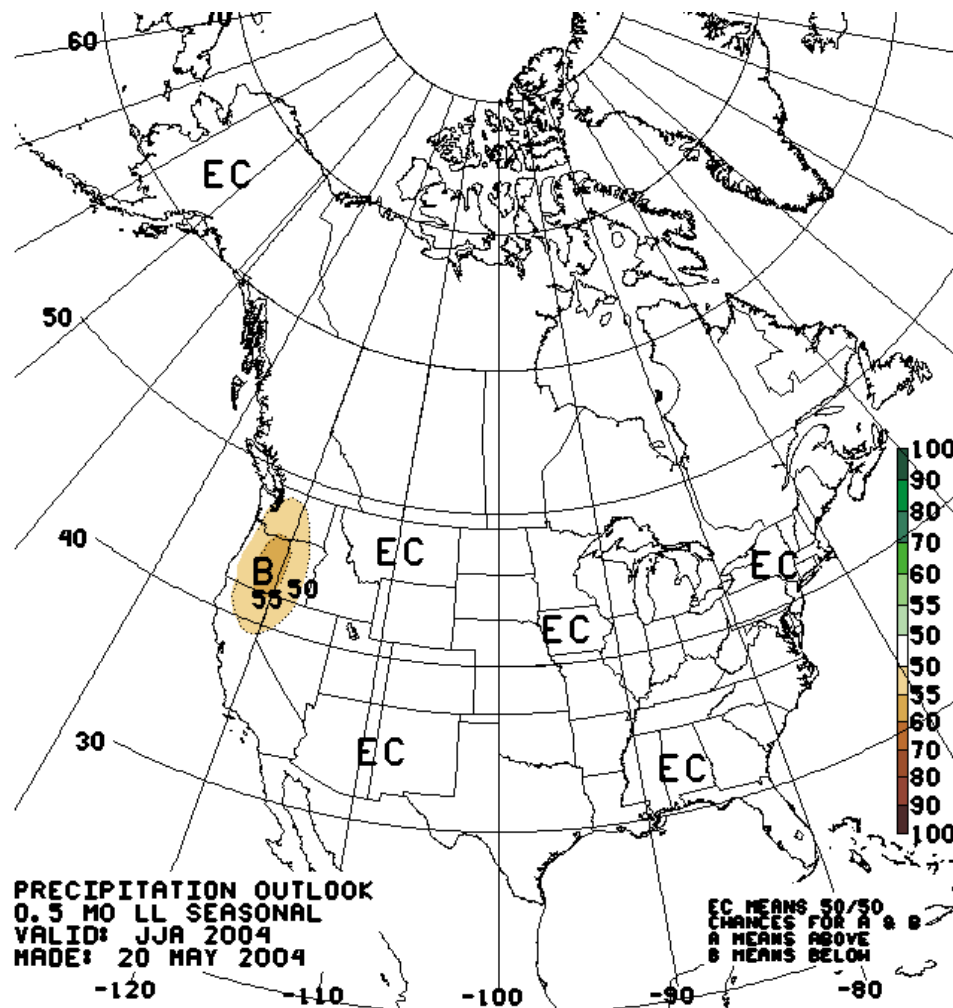
**Current Soil Moisture Deviation (%). Depth = 0-72
June-1-2004**

**Current Soil Moisture Deviation (inches), Depth = 0-72
June-1-2004**



**Midwestern Regional Climate Center
Illinois State Water Survey
Champaign, Illinois**

Seasonal Precipitation Outlooks

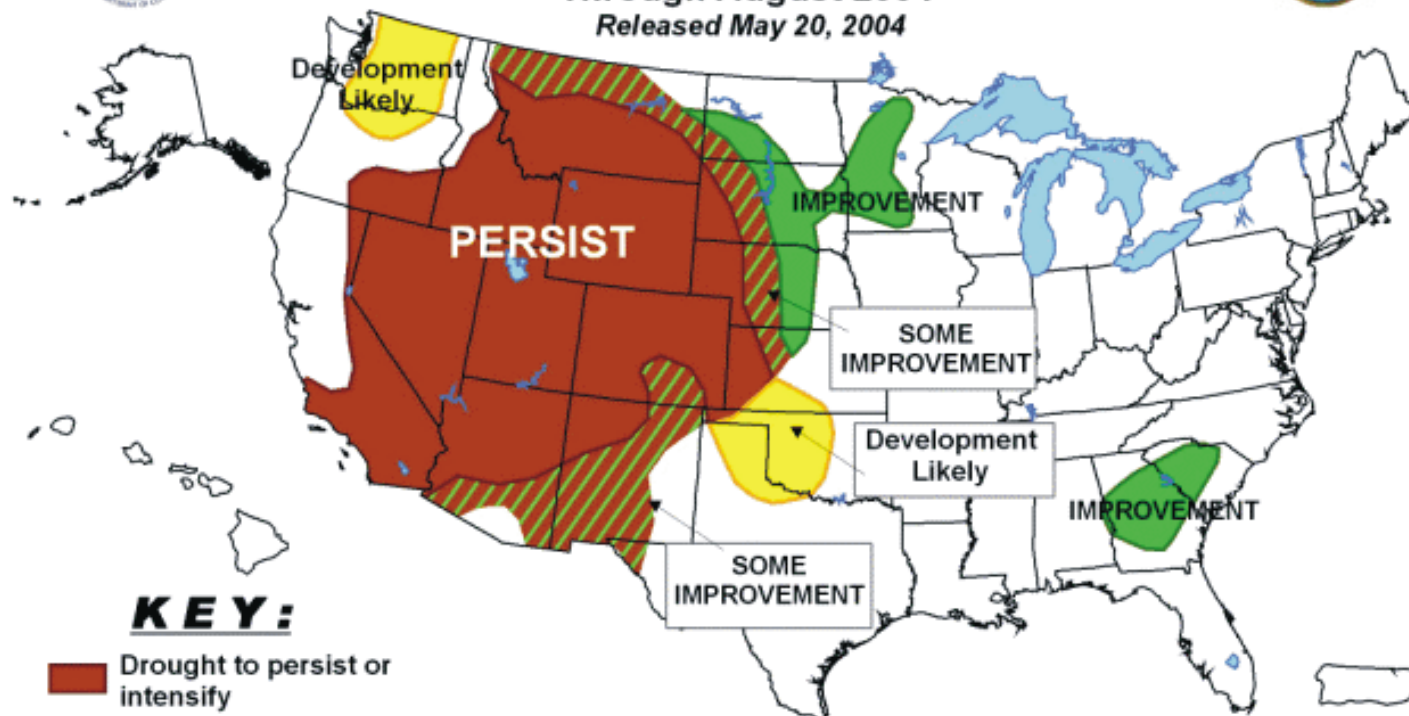




U.S. Seasonal Drought Outlook

Through August 2004

Released May 20, 2004



KEY:

-  Drought to persist or intensify
-  Drought ongoing, some improvement
-  Drought likely to improve, impacts ease
-  Drought development likely

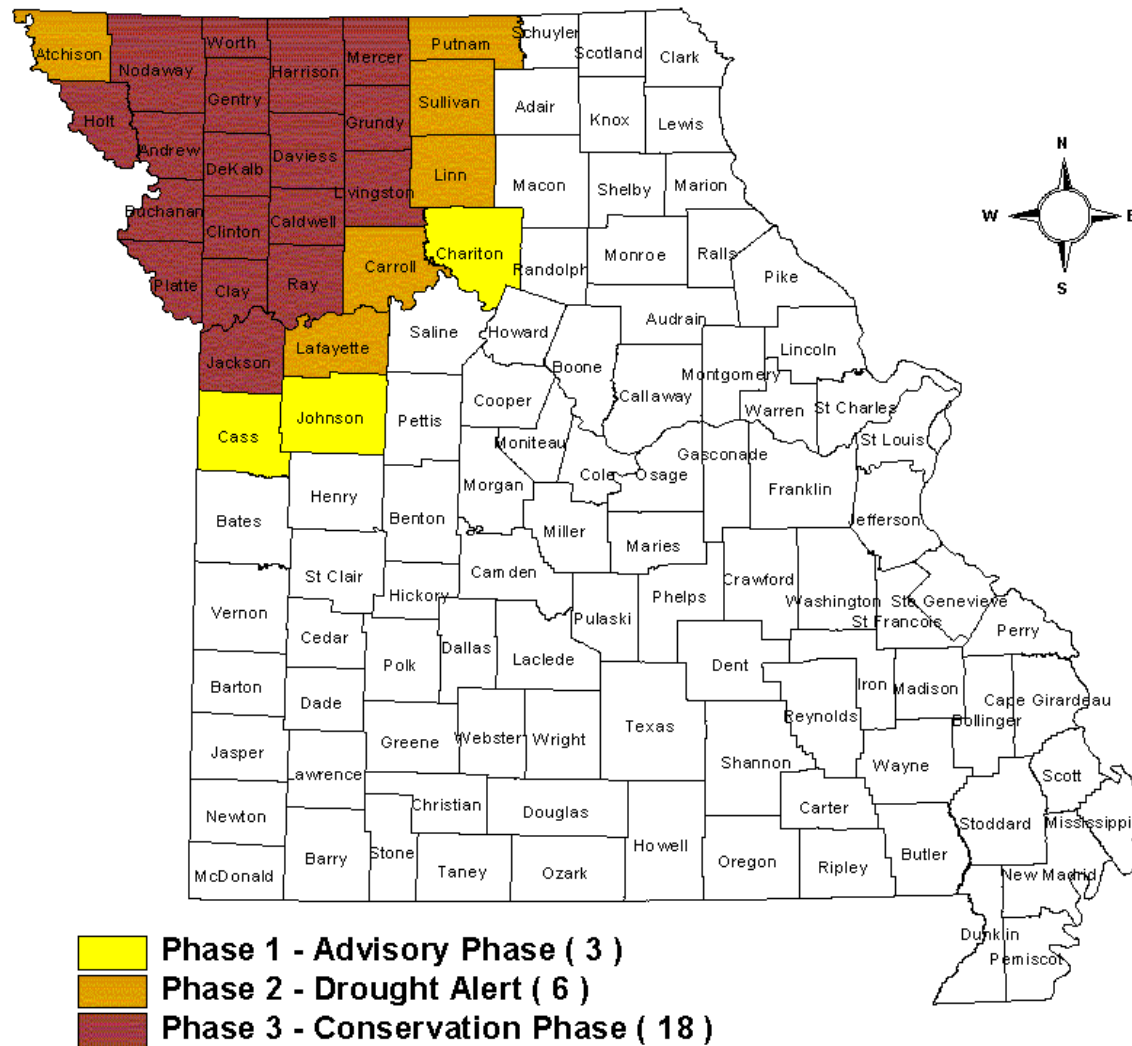
Depicts general, large-scale trends based on subjectively derived probabilities guided by numerous indicators, including short and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance, so use caution if using this outlook for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are schematically approximated from the Drought Monitor (D1 to D4). For weekly drought updates, see the latest Drought Monitor map and text.



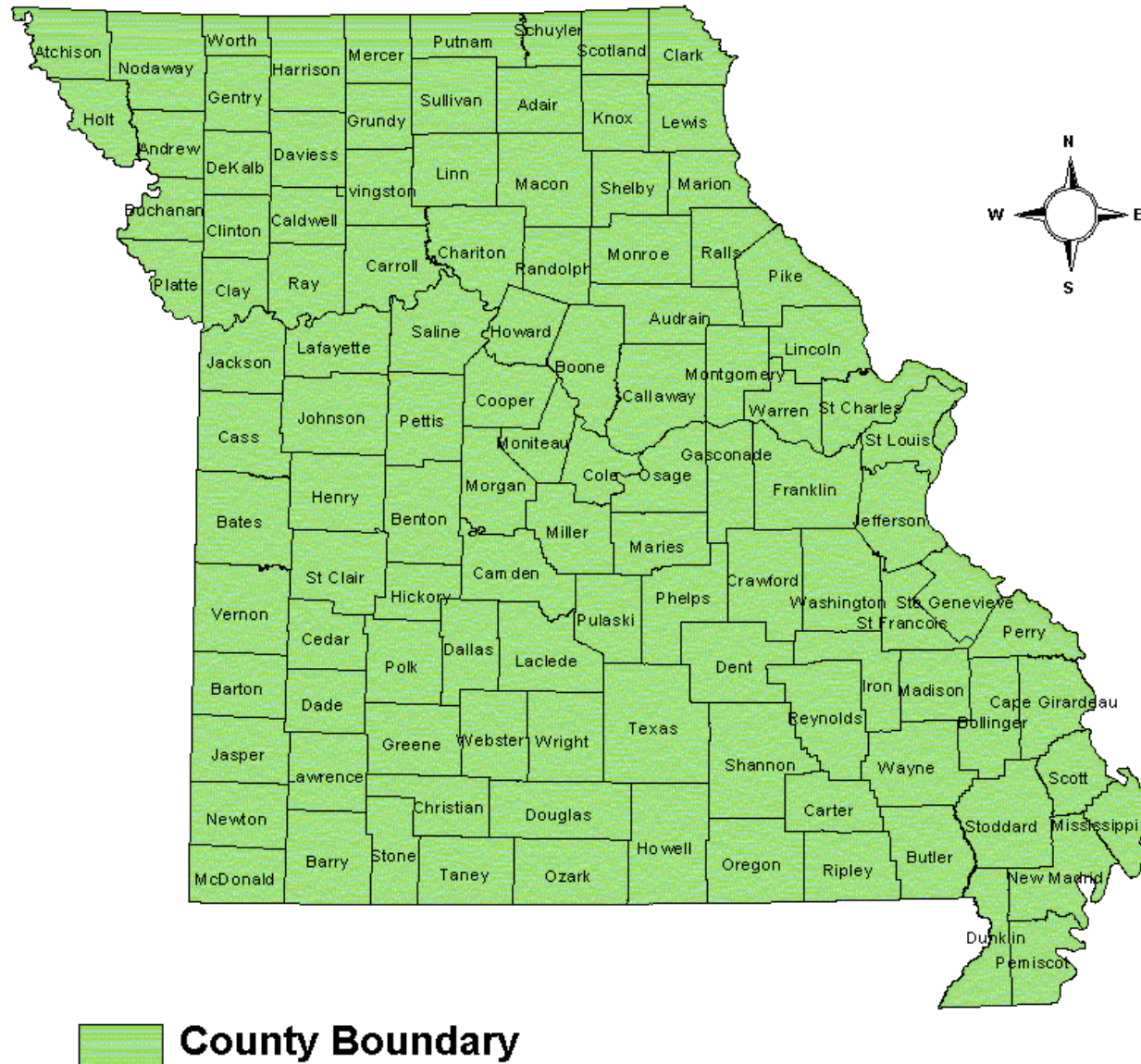
Drought Assessment Committee (DAC)

June 3, 2004

Drought Condition Status (March 3, 2004)

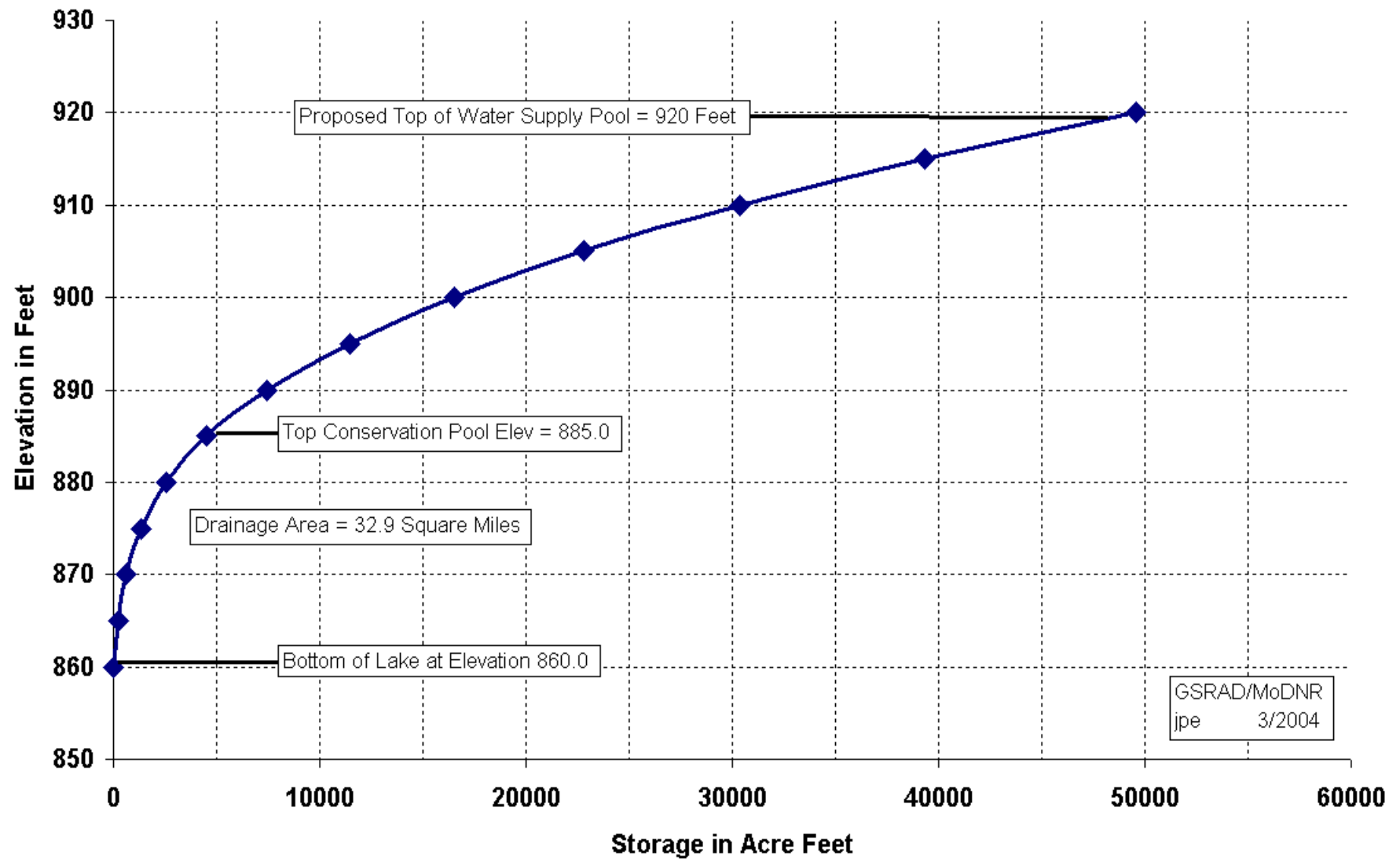


Drought Condition Status (June 3, 2004)

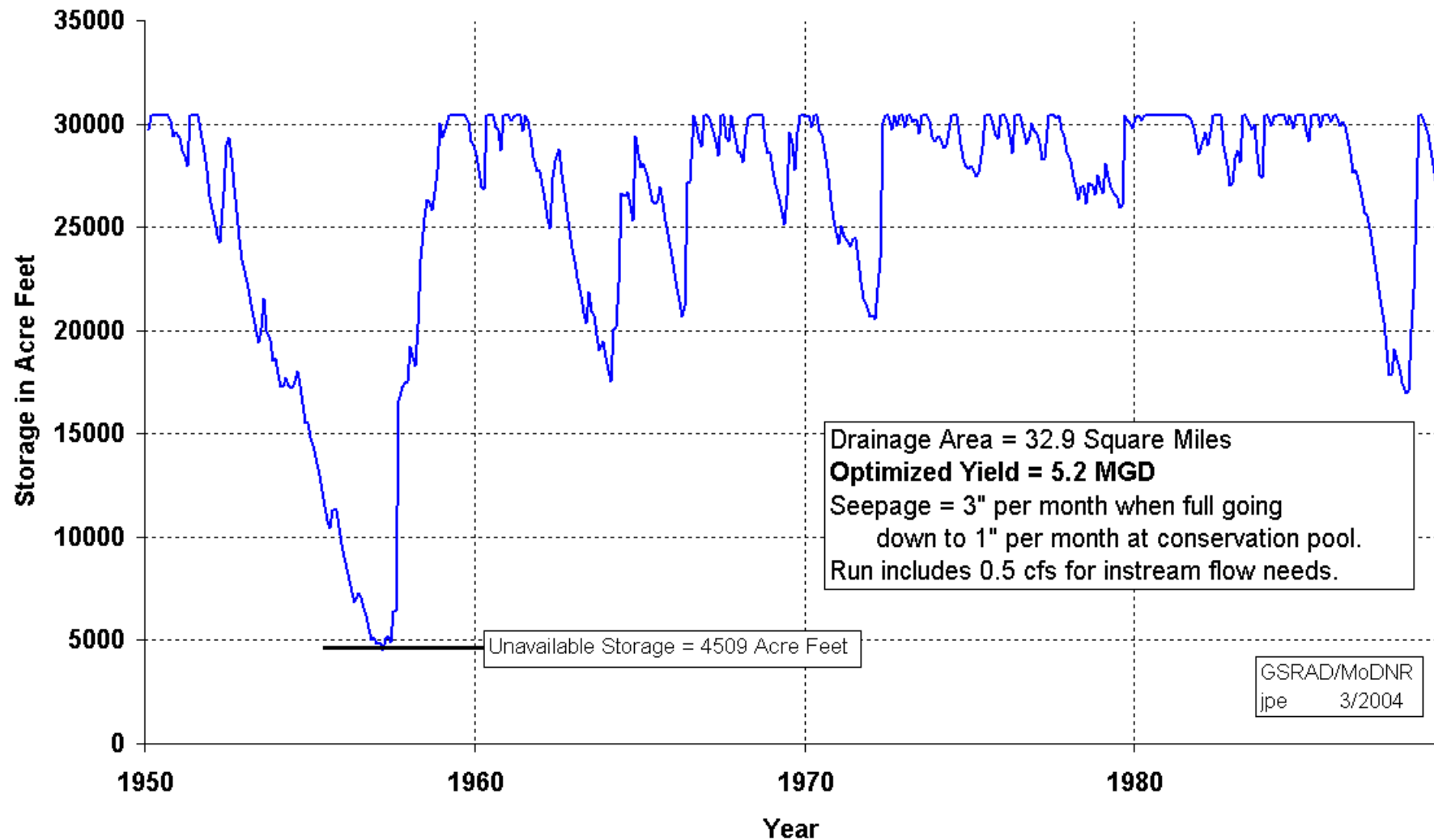


North Central
Missouri
Water Supply Lake
RESOP Run: Demand =
6.75 MGD

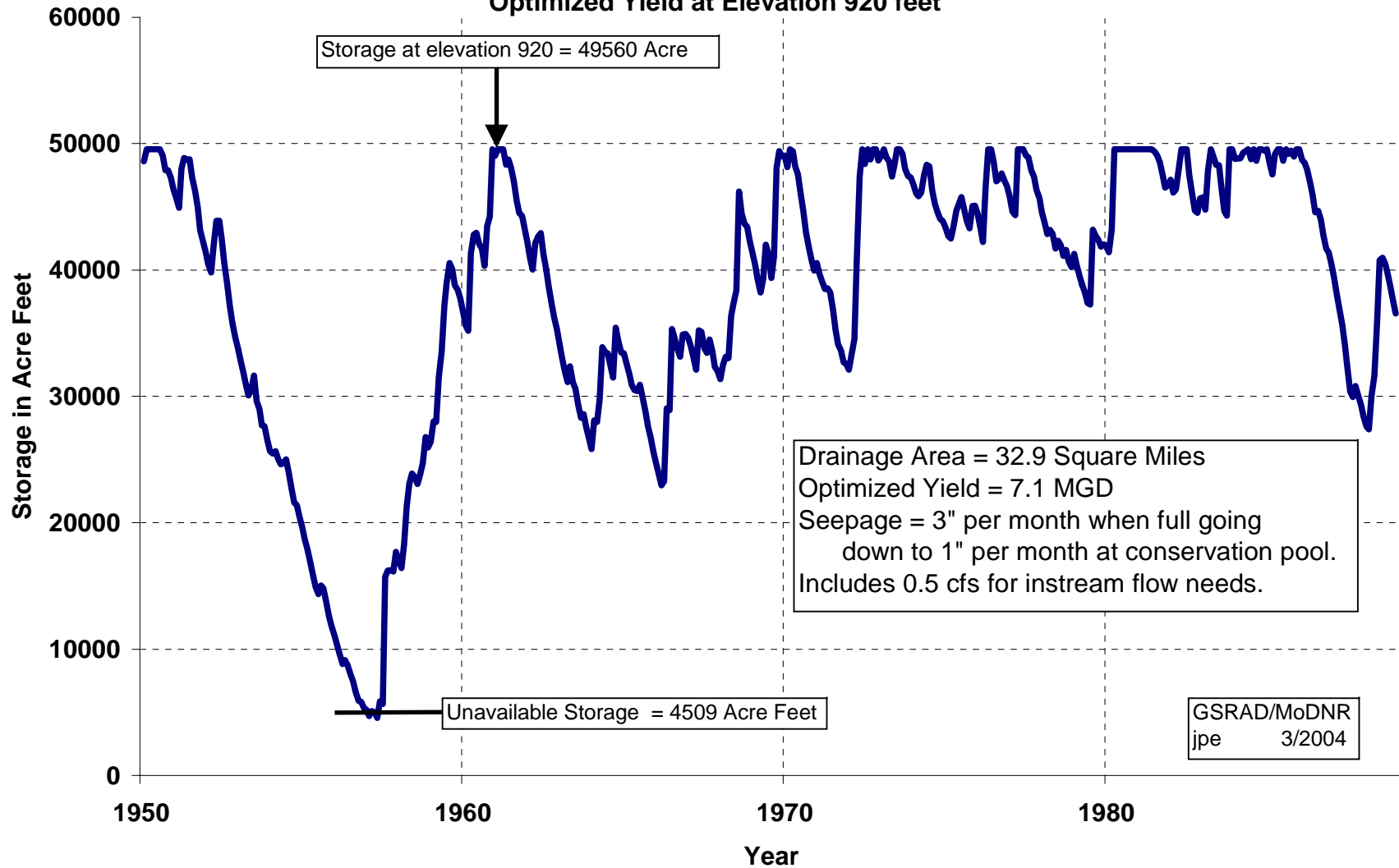
North Central Missouri Watersupply



North Central Missouri Regional Water Supply
Evaluation Period 1951 to 1990
Optimized Yield at Elevation 910.0 Feet



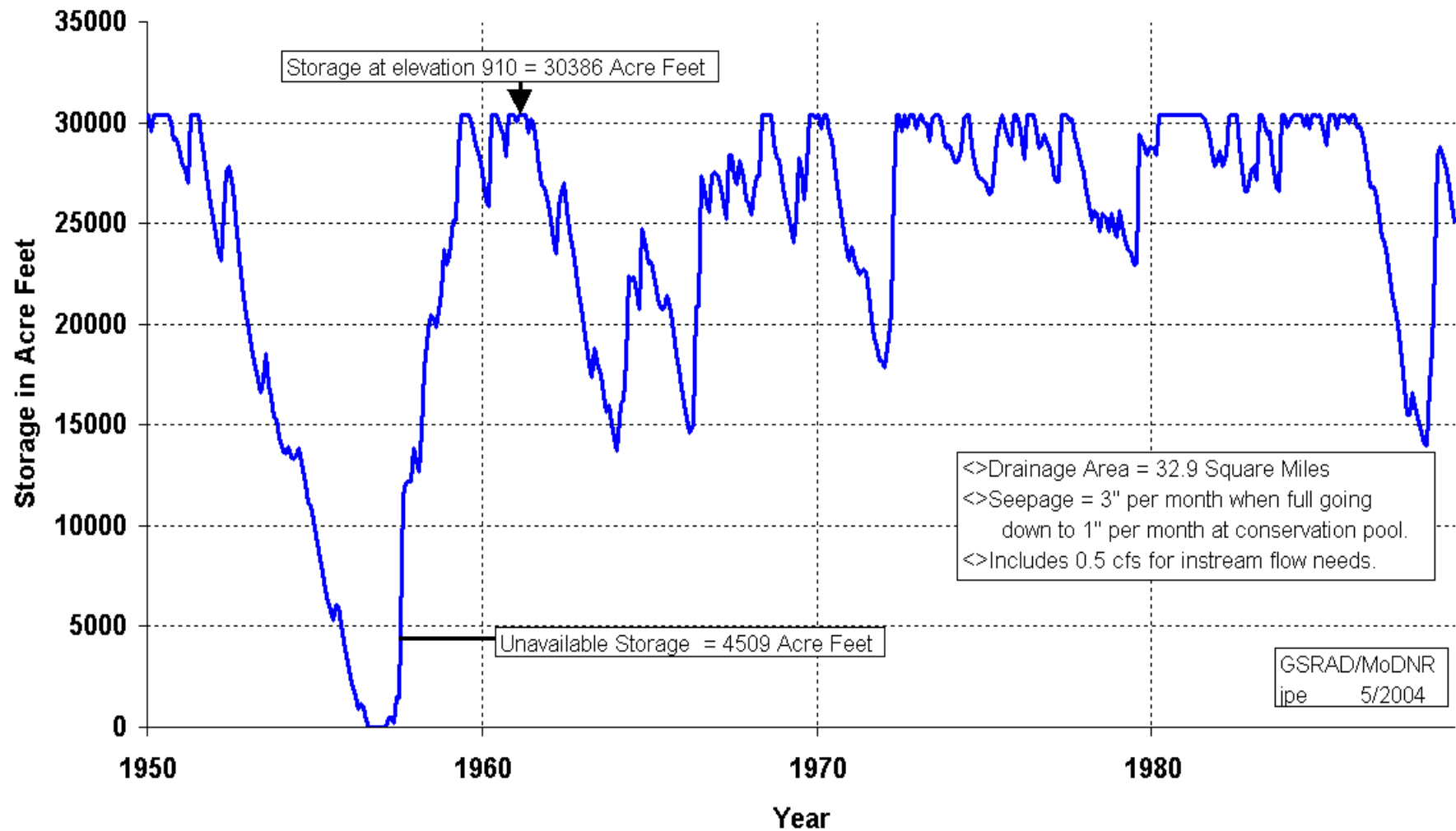
North Central Missouri Water Supply
Proposed Water Supply
Optimized Yield at Elevation 920 feet



North Central Missouri Water Supply

Spillway elevation 910.0

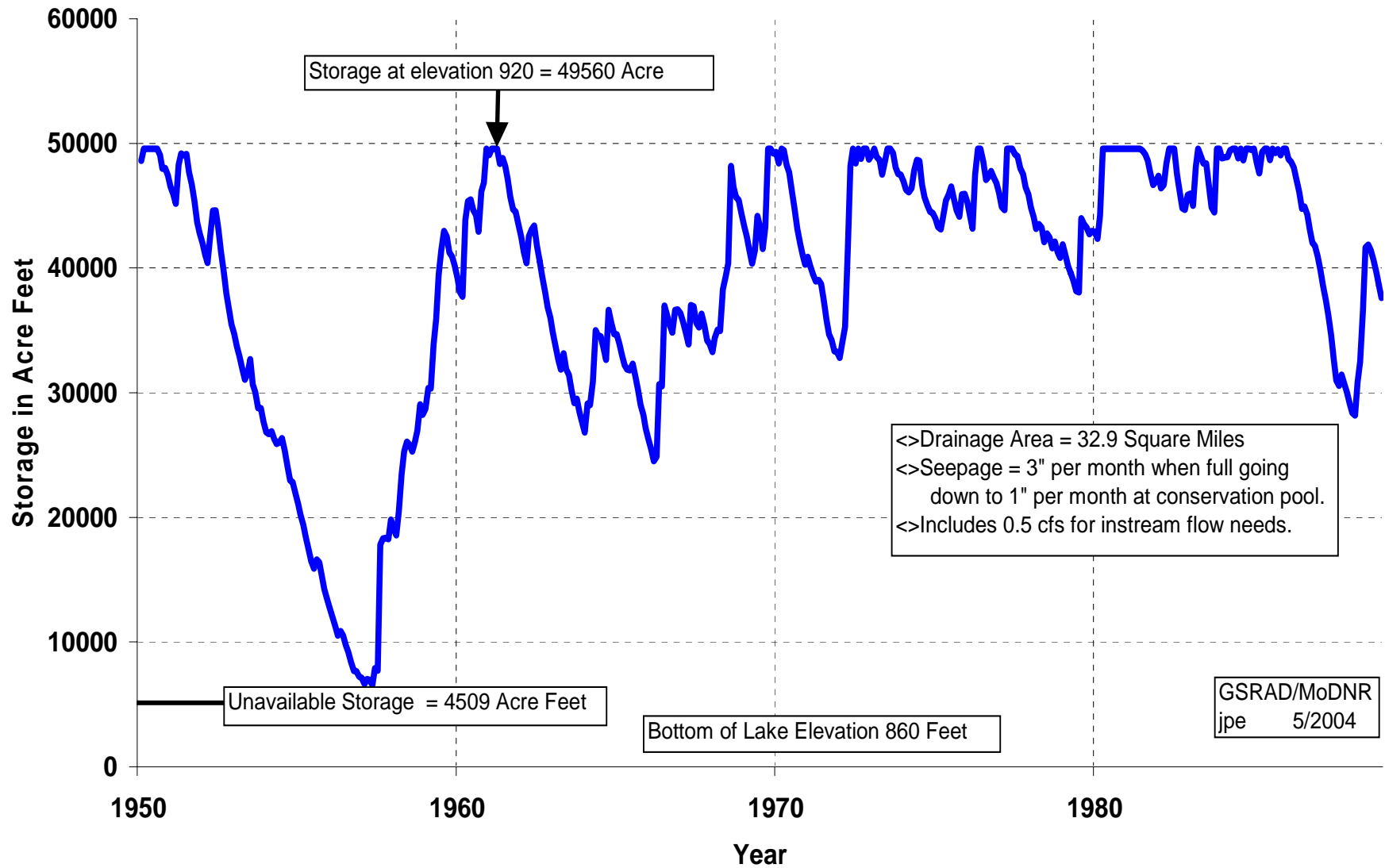
Demand = 6.75 MGD



North Central Missouri Water Supply

Spillway Elevation = 920 Feet

Demand = 6.75 MGD



North Missouri Water Supply

Demand = 6.75 MGD

